43 0 0000

$$\frac{3}{2}$$
 $\frac{3}{2}$ $\frac{a}{2}$ $\frac{a}{2}$

$$0000000000 f(x) = xhx + ax_0(0, e) 000000$$

$$\int f(x) = a - 1 - \ln x \cdot 0_{\Box}(0, e)_{\Box\Box\Box\Box\Box\Box} a - 2 \cdot 0_{\Box\Box} a \cdot 2_{\Box}$$

$$g(x) = |e^{x} - a| + \frac{\vec{a}^{2}}{2} = \begin{cases} a - e^{x} + \frac{\vec{a}^{2}}{2}, 0, x, \ln a \\ e^{x} - a + \frac{\vec{a}^{2}}{2}, x. \ln a \end{cases}$$

$$_{\square} \ln\! a. \ln\! b_{\square\square} a. . 3_{\square\square} g(x)_{\square} [^{\Omega}_{\square} \ln\! b]_{\square\square\square\square\square}$$

$$g(0) - g(hB) = 2a - 4.0_{000} M - m = g(0) - g(hB) = \frac{3}{2}$$

$$(a-1+\frac{\vec{a}}{2})-\frac{\vec{a}}{2}=a-1=\frac{3}{2}$$

$$a = \frac{5}{2}$$

 $\,\, \square\square\square\,\, A_\square$

$$000000 \quad a.1_{0} = x \in [-1_{0}1]_{0}$$

$$f(x) = x^3 + 3|x - a| = x^3 - 3x + 3a$$

$$\therefore f(x) = 3x^2 - 3$$

$$\ \, {\stackrel{\scriptstyle X\in \, [-1_{\scriptstyle \square} 1]}{\scriptstyle \square \square}} \, f(x), \, 0_{\scriptstyle \square \square \square \square}$$

$$M-m = f(-1) 1 = -1 + 3 + 3a - (1 - 3 + 3a) = 4$$

 $_{\square\square\square}\,{}^{C}_{\square}$

$$300000 f(x) = \frac{1}{4}x^{2} - x^{2} + x$$

$$\lim_{n\to\infty} X\in [-2_n4]_{00000}X-6, \ f(X), \ X_0$$

$$\lim_{x\to a} F(x) = f(x) - (x+a) \mid (a \in R) \cap F(x) \cap [-2a] \mid 0 \cap [-2a$$

$$f(x) = \frac{3}{4}x^2 - 2x + 1$$

$$X_1 = 0, X_2 = \frac{8}{3}$$

$$\int f(0) = 0 \int \frac{f(\frac{8}{3})}{3} = \frac{8}{27}$$

$$\therefore y = x_{\square} y - \frac{8}{27} = x - \frac{8}{3}_{\square}$$

$$g(x) = f(x) - x = \frac{1}{4}x^{2} - x^{2} = [-2 + 4]$$

$$\mathcal{G}(x) = \frac{3}{4}x^2 - 2x = \frac{3}{4}x(x - \frac{8}{3})$$

$$000 g'(x) 0[-200] 0000 (0, \frac{8}{3}) 0000 [\frac{8}{3}, 4] 0000$$

$$g(x) = \begin{bmatrix} -2 & 0 \end{bmatrix} = \begin{bmatrix} 0 & \frac{8}{3} \end{bmatrix} = \begin{bmatrix} \frac{8}{3}, 4 \end{bmatrix} = \begin{bmatrix} \frac{8}{3}, 4 \end{bmatrix}$$

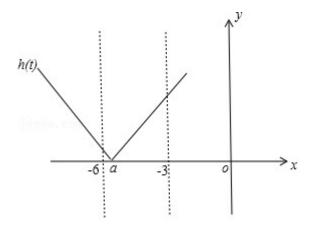
$$F(x) = f(x) - (x+a)$$

$$= f(x) - x - a$$

$$= |g(x) - a|$$

$$\begin{bmatrix} \begin{bmatrix} -2 \end{bmatrix}^4 \end{bmatrix} \begin{bmatrix} -6, g(x), 0 \end{bmatrix}$$

 $0000000 \stackrel{t \in [-6_00]}{=} 00 \stackrel{H(t)}{=} 0000 \stackrel{M_{0}}{=} 000000$



$$0000 \ f(x) \ 0000 \ f(x_1) = 1 + 2(1 - a)\sqrt{1 - a} \ 0000 \ f(x_2) = 1 - 2(1 - a)\sqrt{1 - a} \ 0$$

$$\lim_{x \to 0} \left. f(x_i) > \right| \left. f(x_j) \right|_{x \to 0}$$

$$\prod_{x \in \mathcal{X}} |f(x)|_{x=x} = \max\{f(0)_{x} |f(0)_{x}| f(x)\}_{x=x}$$

$$0 < a < \frac{2}{3} \qquad f(0) > | \qquad 20$$

$$f(x) - f(0) = 2(1-a)\sqrt{1-a} - (2-3a) = \frac{a^2(3-4a)}{2(1-a)\sqrt{1-a} + 2-3a} > 0$$

$$|f(x)|_{mx} = f(x) = 1 + 2(1 - a)\sqrt{1 - a}$$

$$f(x)-|f(2)|=2(1-a)\sqrt{1-a}-(3a-2)=\frac{a^2(3-4a)}{2(1-a)\sqrt{1-a}+3a-2}$$

$$\lim_{\Omega \to 0} \frac{2}{3} e^{-a} < \frac{3}{4} \lim_{\Omega \to 0} |f(x)| \le |f_{\Omega \to 0}|_{\Omega}$$

$$|f(x)|_{max} = \begin{cases} 3 - 3a, a, 0 \\ 1 + 2(1 - a)\sqrt{1 - a}, 0 < a < \frac{3}{4} \\ 3a - 1, a ... \frac{3}{4} \end{cases}$$

$$50000 \; f(x) = a cos 2x + (a - 1)(cos x + 1) \\ 000 \; a > 0 \\ 000 \; | \; f(x) \; | \\ 00000 \; A_0$$

$$0000 f(x) = 0$$

$$0000 f(x) = 0$$

$$0000 f(x) = 2a\sin 2x - (a - 1)\sin x = 0$$

$$(ff) = (f(x) + 3a) + 2a\sin 2x + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos 2x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a - 1)(\cos x + 1) + a|\cos x| + (a -$$

$$A = \begin{cases} 2 - 3a, & 0 < a, \frac{1}{5} \\ \frac{a^2 + 6a + 1}{8a}, & \frac{1}{5} < a < 1 \\ 3a - 2, & a.1 \end{cases}$$

$$(III)_{\square\square\square\square}(I)_{\square\square\square}|f(x)|=-2a\sin 2x-(a-1)\sin x|,, 2a+|a-1|_{\square}$$

$$0 < a, \frac{1}{5} | f(x) | + a, 2 - 4a < 2(2 - 3a) = 2A_{\Box}$$

$$\frac{1}{5} < a < 1 | A = \frac{a^2 + 6a + 1}{8a} = \frac{a}{8} + \frac{1}{8a} + \frac{3}{4} > 1_{\Box}$$

$$\therefore |f(x)|, 1+a, 2A$$

$$a.1_{00} | f(x)|, 3a-1, 6a-4=2A_{0}$$

$$| f(x)|, 2A_{\square}$$

$$600 \, a_{000000} \, f(x) = (x - a)^2 + |x - a| - a(a - 1)_0$$

$$0100 \ ^{f(0),,\, 1} 00 \ ^{d} 000000$$

$$000000100 \ f(0),, 1_{000} \ a^2 + |a| - a(a-1),, 1_{000} |a| + a-1,, 0_{00} |a| + a-1, 0_{00} |a| +$$

$$a < 0$$
 $a < 1$, 0

$$a_{m}\frac{1}{2}$$

$$\therefore a_{000000}(-\infty,\frac{1}{2}]_{0}$$

$$f(x) = \begin{cases} x^2 - (2a+1)x + 2a, x < a \\ x^2 + (1-2a)x, x = a \end{cases} = \begin{cases} [x - (a+\frac{1}{2})]^2 - \frac{(2a-1)^2}{4}, x < a \\ [x - (a-\frac{1}{2})]^2 - \frac{(2a-1)^2}{4}, x = a \end{cases}$$

 $\square 2 \square \square \square$

$$X = \frac{2a+1}{2} = a + \frac{1}{2} > a$$

$$Y = f(x) = (-\infty, a)$$

$$X = \frac{2a-1}{2} = a - \frac{1}{2} < a$$

$$Y = f(x) = (a, +\infty)$$

$$F(x) = f(x) + \frac{4}{x} = \begin{cases} x^2 - (2a+1)x + \frac{4}{x} + 2a, x < a \\ x^2 + (1-2a)x + \frac{4}{x}, x \cdot a \end{cases}$$

$$F(\vec{x}) = \begin{cases} 2x - (2a+1) - \frac{4}{x^2} = \frac{2x^2 - (2a+1)x^2 - 4}{x^2}, x < a \\ 2x + (1-2a) - \frac{4}{x^2} = \frac{2x^2 + (1-2a)x^2 - 4}{x^2}, x \cdot a \end{cases}$$

$$P(\vec{x}) = \frac{2\vec{x} - (2a+1)\vec{x} - 4}{\vec{x}^2} = \frac{2\vec{x} \cdot (x-a) - (x^2+4)}{\vec{x}^2} < 0$$

00000 F(x)0 (0, a) 000000

$$F(x) = \frac{2x^2 + (1-2a)x^2 - 4}{x^2} = \frac{2x^2(x-a) + (x^2-4)}{x^2} \dots 0$$

 $00000 P(x)_0(a,+\infty) 000000$

$$F_{\text{la}} = a - a^{2} + \frac{4}{a} = a - a^{2} = a - a^{2} + \frac{4}{a} = a - a^{2} = a - a^$$

$$00^{F(ah)}0^{(2,+\infty)}000000$$

$$< F(2) = 2 - 2^2 + \frac{4}{2} = 0$$
 $F(3) = 7 - 2^2 + \frac{4}{2} = 0$
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 $F(3) = 7 - 2^2 + \frac{4}{2} = 0$
 $F(3) = 7 - 2^2 + \frac{4}{2} = 0$

 $a = 2_{00} F(x)_{000000} a > 2_{0} F(x)_{000000}$

 $700 \stackrel{\partial}{=} 000000 f(x) = (x-a)^2 + |x-a| - a(a-1)_0$

0100 ^{f(0)},, 1₀₀ a₀₀₀₀₀₀

 $300 a > 20000 f(x) + |x|_0 R_{0000000}$

 $00000010^{0} \ f(0),, 1$

$$\therefore \ f(0) = (0 - \ a)^2 + \big| \ X - \ a \big| - \ a(a - \ 1) = \vec{a} + \big| \ a \big| - \ a(a - \ 1) = \big| \ a \big| + a,, 1$$

$$a > 0_{000000} a + a_{n} 1_{0}$$

$$\therefore 0 < a_{n}, \frac{1}{2}$$

$$0000 \, {}^{a}_{000000} \, (-\,\infty_{\,0} \, \frac{1}{2} {}^{\!1}_{\,0}$$

$$0200 X < a_{0000} f(x) = x^2 - (2a+1)x + 2a_{000}$$

$$X = \frac{2a+1}{2} = a + \frac{1}{2} > a$$

$$y = f(x) \cdot (-\infty, a) \cdot (-\infty, a)$$

$$X = a - \frac{1}{2} < a \quad y = f(x) = (a, +\infty) = 0$$

$$= \prod_{\alpha \in A} f(x) = (a, +\infty) = 0$$

$$g(x) = f(x) + |x| = \begin{cases} x^2 + (2-2a)x, x. a \\ x^2 - 2ax + 2a, 0, x < a \\ x^2 - (2a+2)x + 2a, x < 0 \end{cases}$$

$$0^{X.a}$$

$$0$$
, $X < a_{0000000} X = a_{0}$

$$\Box a > 2 \Box$$

$$g_{a} = (a-1)^2 + 1_{a}(2,+\infty)$$

$$\therefore g_{\texttt{a}} < g_{\texttt{2}} = 0$$

$$\therefore f(x)_{\square}(0,a)_{\square}(a,+\infty)_{\square \square \square \square \square \square \square \square \square}$$

0000
$$a > 2_{00} f(x) + |x|_{0} R_{00} 2$$
 0000

800000
$$f(x) = x^2 + 3|x - a|(a \in R)$$

$$\log^{-f(\vec{x})} \log^{[-1]} \log^{-1} \log^{-1} \log^{-m} \log^{m} \log^{-m} \log^{-m} \log^{-m} \log^{-m} \log^{-m} \log^{-m} \log^{-m} \log^{-m} \log^{-m}$$

$$|f(x) = x^{3} + 3|x - a| = \begin{cases} x^{3} + 3x - 3a, x \cdot a \\ x^{3} - 3x + 3a, x < a \end{cases}$$

$$f(x) = \begin{cases} 3x^2 + 3, x \cdot a \\ 3x^2 - 3, x < a \end{cases}$$

$$\textcircled{1} \ \textit{a., -1} \ \textbf{1} \ \textbf{1} \ \textbf{1}, \ \textit{x.} \ \textbf{1} \ \textbf{1} \ \boldsymbol{.} \ \boldsymbol{.} \ \textit{x.} \ \textit{a.} \ \textit{f(x)} \ \textbf{1} \ \textbf$$

$$\therefore M_{\square \mathbf{a} \square} = f_{\square \mathbf{1} \square} = 4 - 3a_{\square} m_{\square \mathbf{a} \square} = f(-1) = -4 - 3a_{\square}$$

$$M_{\mathbf{a}} = 8$$

$$2 - 1 < a < 1 \atop \bigcirc \bigcirc X \in (a,1) \atop \bigcirc A \subset (a,1) \atop \bigcirc A \in (a,1) \atop \bigcirc A \subset (a,$$

$$\therefore M_{\square \mathbf{a} \square} = \max \{ f_{\square \mathbf{1} \square \square} f(-1) \}_{\square M_{\square \mathbf{a} \square}} = f_{\square \mathbf{a} \square} = a^3 \square$$

∴-1<
$$a_n \frac{1}{3}$$
 \[M_\text{\tint{\text{\text{\text{\text{\tint{\tint{\tint{\tint{\text{\tint{\text{\text{\text{\text{\text{\tint{\text{\tint{\tint{\tint{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\text{\tint{\te}\tint{\text{\text{\tint{\text{\tinit{\text{\text{\text{\tint{\ti}\text{\text{\tint{\tint{\tint{\text{\text{\tint{\text{\text{\tin}}\tint{\text{\text{\tinit{\text{\text{\tinit{\text{\text{\tin{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tinit{\tiin}\tint{\tiit{\tiit}\tint{\tiit{\tinit{\tiit}\tinit{\tiit{\tiit}\tinit{\tiit{\tiit{\tiit}}\tint{\

$$\frac{1}{3} < a < 1$$
 $M_{a} - m_{a} = a^3 + 3a + 2$

$$\ \, \textbf{3} \,\, \textbf{a..1}_{\square\square\square} \, \textbf{X, a}_{\square} \,\, \textbf{f(x)}_{\square} \, \textbf{(-1,1)}_{\square\square\square\square\square\square}$$

$$M_{a} = f(-1) = 2 + 3a_{a} = f_{a} = 2 + 3a_{a}$$

$$\therefore M_{\square \mathbf{a} \square}^{-} m_{\square \mathbf{a} \square} = 4_{\square}$$

$$[f(x) + b]^{2}, 4 X \in [-1_{0}]^{1}$$

$$\therefore -2,, \text{ If } x),, 2 \text{ } x \in [-1_{\square}1]_{\square\square\square\square}$$

$$\frac{1}{3} < a < 1$$

$$0 = 3a + b + 2 = 3a + b$$

$$9 \mod f(x) = x^2 - ax + b_{\square}$$

$$|| f(x) - f(x) - x^2 - a_0 x + b_0 || f(\sin x) - f(\sin x) - f(\sin x) || \frac{\pi}{2} || \frac{\pi}{2}$$

$$\lim_{n \to \infty} t = \sin x_{00} \quad x \in \left(-\frac{\pi}{2} \frac{\pi}{2} \frac{\pi}{2}\right)$$

$$_{\square}a_{n}$$
 - $_{\square}^{2}$ $_{\square}^{2}$ $f(h)...0_{\square}$ $f(h)$ $_{\square}^{2}$ $f(\sin x)$ $_{\square}^{2}$

②
$$-2 < a < 2$$
 $-1 < t < \frac{a}{2}$ $f(t) < 0$ $f(\sin x)$

$$\frac{a}{2} < t < 1 \qquad f(t) > 0 \qquad f(\sin x) \qquad 0$$

$$f(\sin x) = b - \frac{a^2}{4}$$

$$(a-a_0)(b-b_0)..0_{000} = \frac{\pi}{2}$$

$$(a-a_0)(b-b_0), 0 = X=-\frac{\pi}{2}$$

$$|f(\sin x) - f_0(\sin x)|_0^{-\frac{\pi}{2}} \frac{\pi}{2} |_0 = D = a - a_0 + |b - b_0|_0^{-\frac{\pi}{2}}$$

$$Z = b \cdot \frac{\vec{a}}{4} 0 0 0 D_n \cdot 1_{000000} 1_0$$

100000
$$f(x) = x^2 + 3|x - a| (a \in R)_0$$

$$f(x) = x^2 + 3|x - a| = \begin{cases} x^2 - 3x + 3a, x < a \\ x^2 + 3x - 3a, x \cdot a \end{cases}$$

①
$$\begin{bmatrix} a \cdot 1 \end{bmatrix}$$
 $f(x) = x^2 - 3x + 3a$ $X \in [-1_0 1]$ $M_{0a} = f(-1) = 4 + 3a$

$$m_{\square \mathbf{a} \square} = f_{\square \mathbf{1} \square} = -2 + 3a_{\square \square \square} M_{\square \mathbf{a} \square} - m_{\square \mathbf{a} \square} = 6_{\square}$$

$$f(x) = \begin{cases} x^2 - 3x + 3a, -1, & x < a \\ x^2 + 3x - 3a, a, & x, 1 \end{cases}$$

$$\underset{\square}{\square} f(x) \underset{\square}{X} \in [-1_{\square} a]_{\square \square \square \square \square} x \in [a_{\square} 1]_{\square \square \square \square \square}$$

$$= \begin{cases} 6, a_n - 1 \\ 4 + |3a| - a^2, -1 < a < 1 \\ 6, a... \end{cases}$$

$$\begin{bmatrix} 3a + b, -1 \\ 3a + b - 1 \\ 0 & 3a + b - 1 \end{bmatrix}$$

$$\begin{bmatrix} b-3a, -1 \\ b-3a..-1 \\ 000b-3a=-1 \\ 0003a+b, -7 \\ 0000b-3a=-1 \\ 00003a+b, -7 \\ 00000a+b, -7 \\$$

$$3 - 1 < a < 1_{\text{con}} m_{\text{ca}} = f_{\text{ca}} = \vec{a}^2 - 1_{\text{con}} m_{\text{ca}} = \vec{a} - 3, \ \vec{b} - 3 = 3$$

$$\Box\Box$$
 - \vec{a} + 3 \vec{a} - 3,, 3 \vec{a} + $\vec{\mu}$, 3 \vec{a} |3 \vec{a} | - 1 \Box

$$_ -1 < a < 1 _ - \vec{a} + 3a - 3 > -7 _ ^3 \vec{a} |3a| -1, -1 _ _ -7 < 3a + \hbar, -1 _$$

 \square 3a+b, -1

$$f(x) = \frac{1}{3}x^3 + |x - a| (x \in R \ a \in R)$$

010000 $f(\vec{x})$ 0 R0000000 a000000

0200000 f(x) 0 R

$$f(x) = \frac{1}{3}x^2 + |x - a|$$

$$f(x) = \frac{1}{3}x^{2} + x^{2} \quad a \quad f(x) > 0 \quad f(x) = 0$$

$$\int_{X} X < d \prod_{x} f(x) = \frac{1}{3}x^{2} + d^{2}x$$

$$\int_{X} f(x) = x^{2} - 1$$

$$00000 \, a_{m} - 1_{00} \, f(x) > 0_{0} \, x < a_{0000}$$

$$\square^a\square\square\square\square$$

$$f(x) = \frac{1}{3}x^{2} + |x - a| = \frac{1}{3}x^{2} + a - x$$

$$f(x) = x^2 - 1_{\square} f(x), 0_{\square} f(x)_{\square} [-1_{\square} 1]_{\square \square \square}$$

 $\begin{smallmatrix} & f(-1) \\ & 0 & 0 \\ & & f \\ & 1 \\ & 0 \\ & 0 \\ & 0 \\ & 1 \\ & 0$

$$a = \frac{1}{3} \int_{0}^{a} f(x) \left[-1 \int_{0}^{1} \frac{1}{3} \right] \int_{0}^{1} \left[\frac{1}{3} \right] dx$$

$$-1 < a < \frac{1}{3}$$
 $f(x) = [-1 a]$ $a = [a 1] = [a]$

$$f(-1) = -\frac{1}{3} + |-1 - a| = -\frac{1}{3} + a + 1 = a + \frac{2}{3} \prod_{i=1}^{n} f_{i=1} = \frac{1}{3} + |1 - a| = \frac{1}{3} + 1 - a = \frac{4}{3} - a$$

$$f(x) = \frac{1}{3}a^{3} + \frac{4}{3}a^{3} - a$$

$$\frac{1}{3} < a < 1 \\ 0 f(x) [-1 a]_{000} [a_0 1]_{000}$$

$$f(x) = \frac{1}{3}a^{3} \qquad a + \frac{2}{3}$$

$$= \begin{cases} \frac{4}{3} - a - \frac{1}{3}a^{3}, -1 < a, \frac{1}{3} \\ a + \frac{2}{3} - \frac{1}{3}a^{3}, \frac{1}{3} < a < 1 \end{cases}$$

$$= \begin{cases} \frac{4}{3} - a - \frac{1}{3}a^{3}, -1 < a, \frac{1}{3} \\ a + \frac{2}{3} - \frac{1}{3}a^{3}, \frac{1}{3} < a < 1 \end{cases}$$

$$-\frac{2}{3}, f(x) + h, \frac{2}{3} = 0$$

$$a.1_{00} - \frac{2}{3}$$
" $b+a-\frac{2}{3}$ $\frac{2}{3}$... $b+a+\frac{2}{3}$

$$a+b=0$$
 $b=-a$ $a-b$ 0 0 1

$$-1 < a$$
, $\frac{1}{3}$ $-\frac{2}{3}$, $b + \frac{1}{3}a^3$ $\frac{2}{3}$. $b + \frac{4}{3}$ a

$$\frac{1}{3} < a < 1 \qquad -\frac{2}{3}, b + \frac{1}{3}a^{3} \qquad \frac{2}{3}...b + a + \frac{2}{3}$$

$$-1 < b < -\frac{1}{3} = a - b = 0$$

$$a - b_{0000} (\frac{2}{3} + \infty)_{0000}$$

$$12000 \ f(x) = x^2 + 2 | x - a | + a (a \in R) = x^2 - 2 = 0$$

$$0100^{g}$$

$$200b \in R_{00}[f(x) + b]^2, 36_0 X \in [-2_02]_{00000} a + b_{000000}$$

$$f(x) = x^2 + 2|x-a| + a = \begin{cases} x^2 + 2x - a, x ... a \\ x^2 - 2x + 3a, x < a \end{cases}$$

$$f(x) = x^2 + 2|x - a| + a = x^2 - 2x + 3a$$

$$M_{a} = f(-2) = 4 + 4 + 3a = 8 + 3a$$

$$m_{\square \mathbf{a} \square} = f_{\square \mathbf{1} \square} = 3a - 1_{\square}$$

$$f(x)_{0}[1_{0}2]_{0000000}[-2_{0}1]_{00000}$$

$$\ \, \square \, f_{\square 1 \square} = 3a - 1_{\square} \, f(-2) = 4 + 4 + 3a = 8 + 3a_{\square}$$

$$f_{\square 2 \square} = 8$$
- a_{\square}

$$M_{a} = f(-2) = 4 + 4 + 3a = 8 + 3a$$

$$m_{\square \mathbf{a} \square} = f_{\square \mathbf{1} \square} = 3a - 1_{\square}$$

$$[g_{a}] = M_{a} - m_{a} = 9$$

$$f(x)_{0}[a_{0}^{2}]_{0000000}[-2_{0}^{a}]_{00000}$$

$$f_{a} = \vec{a} + a_{1} f(-2) = 4 + 4 + 3a = 8 + 3a_{1}$$

$$f_{20}=8-a_{0}$$

$$M_{a} = f(-2) = 4 + 4 + 3a = 8 + 3a$$

$$m_{\square \mathbf{a} \square} = f_{\square \mathbf{a} \square} = \vec{a} + a_{\square}$$

$${\color{red} \parallel} g_{ \color{red} \parallel \mathbf{a} \color{black} \parallel} = M_{ \color{red} \parallel \mathbf{a} \color{black} \parallel} - m_{ \color{red} \parallel \mathbf{a} \color{black} \parallel} = -\vec{a} + 2a + 8_{ \color{black} \parallel}$$

$$f(x)_{0}[a_{0}^{2}]_{0000000}[-2_{0}^{a}]_{00000}$$

$$f_{\text{con}} = 8 - a_{\text{con}}$$

$$M_{\square a \square} = f_{\square 2 \square} = 8 - a_{\square}$$

$$m_{\square \mathbf{a} \square} = f_{\square \mathbf{a} \square} = \vec{a} + a_{\square}$$

$${}_{\square}g_{\square \mathbf{a}\square} = M_{\square \mathbf{a}\square} - m_{\square \mathbf{a}\square} = -\vec{a} - 2a + 8_{\square}$$

$$f(x)_{\Box}[-1_{\Box}2]_{\Box\Box\Box\Box\Box\Box}[-2_{\Box}-1]_{\Box\Box\Box\Box\Box}$$

$$_{\square} \ f(\text{- 1}) = \text{1- 2- } a = \text{- 1- } a_{\square} \ f(\text{- 2}) = \text{4+4+3} \\ a = \text{8+3} \\ a_{\square}$$

$$f_{\square 2 \square} = 8 - a_{\square}$$

$$m_{\Box a\Box} = f(-1) = 1 - 2 - a = -1 - a_{\Box}$$

$$g_{\mathbf{a}} = M_{\mathbf{a}} - m_{\mathbf{a}} = 9$$

$$f(x) = x^2 + 2|x-a| + a = x^2 + 2x-a$$

$$M_{\square a \square} = f_{\square 2 \square} = 8 - a_{\square}$$

$$m_{\square a \square} = f(-1) = -a - 1_{\square}$$

$$20^{\circ}$$
 $f(x) + b^{2}$, 36° 6 , $f(x)$, $b + 6^{\circ}$

$$_$$
 - b - 6,, $3a$ - 1 \bigcirc 8 + $3a$, - b + 6 \bigcirc

$$00000 a + b$$
, - $2a$ - 2 , - 4

$$[-b-6]$$
, $a^2 + a_{11} = 8 + 3a$, $-b+6$

$$\Box$$
 - 7 < $a + b$,, - 2

$$0^{-}b^{-}6$$
, $a^{2}+a_{00}8^{-}a$, $b^{+}6$

$$\Box$$
 - 7 < $a + b <$ - 2 \Box

$$[-b-6, -a-1]$$
 $[8-a, -b+6]$

$$\Box^{b+a,-4}\Box$$

130000
$$f(x) = x^2 - 2x|x - a|(|a|, 1)$$

$$0100 a = 1000 f(x) 0000000$$

$$f(x) = x^2 - 2x|x - 1| = \begin{cases} 3x^2 - 2x x < 1 \\ -x^2 + 2x x . 1 \end{bmatrix}$$

$$\therefore X < 1_{0000} f(x) \begin{bmatrix} \frac{1}{3} & 1 \\ 0 & 0 \end{bmatrix}$$

$$\therefore$$
 $X.1_{0000}$ $f(x)_{00000}$

$$00000 a = 1_{000} f(x) 0000000 \left[\frac{1}{3} 0 1\right] 0$$

$$f(x) = x^2 - 2x |x - a| = \begin{cases} 3x^2 - 2ax & x < a \\ -x^2 + 2ax & x . a \end{cases}$$

$$X = \frac{1}{3}a \cdot a$$

$$00 M_{0a} - m_{0a} = 4,4000$$

$$0 < a$$
, $2\sqrt{3} - 3$ f_{010} $f(\frac{1}{3}a)$

$$2\sqrt{3} - 3 < a, 1$$
 $f_{010} > f(\frac{1}{3}a)$

$$f(x) = x \in [-1_0 1]_{000000} M_{0a0} = f(-1) = 3 + 2a_{000000} m_{0a0} = f(\frac{1}{3}a) = -\frac{1}{3}a^2$$

$$\ \, \square \, M_{\square \mathbf{a}\square^{-}} \, m_{\square \mathbf{a}\square^{''}} \, ^4_{\square \square \square}$$

$$1400000 f(x) = |x - 1| - ax - 1(a \in R)$$

$$010000 X_{000} f(x) + x^{2} + 1 = 0_{000} (0_{0}^{2}) 00000000 X_{0} X_{0}^{2}$$

$$000000100 f(x) + x^2 + 1 = 0 x \in (0_0 2]_0$$

$$a = |X - \frac{1}{X}| + X = \begin{cases} \frac{1}{X}, 0 < X, 1 \\ 2X - \frac{1}{X}, 1 < X, 2 \end{cases}$$

$$y = \begin{cases} \frac{1}{x}, 0 < x, 1 \\ 2x - \frac{1}{x}, 1 < x, 2 \end{cases}$$

$$4 - \frac{1}{2} = \frac{7}{2}$$

$$0^{a_{000000}}$$
 $(1, \frac{7}{2})$

$$a = \frac{1}{X} \quad a = 2X_2 - \frac{1}{X_2}$$

$$\frac{1}{X} = 2X_2 - \frac{1}{X_2} \prod_{i=1}^{n} \frac{1}{X_i} + \frac{1}{X_2} = 2X_2$$

$$\frac{1}{X} + \frac{1}{X_2}$$

$$f(x) = \begin{cases} -x^2 - ax_1 0, & x_2 1 \\ x^2 - ax - 2, 1 < x_2 \end{cases}$$

$$g_{a} = f(0)$$
- $g_{a} = 2a$ - 2

$$= f(\frac{a}{2}) = -2 - \frac{a^2}{4} \prod_{n=1}^{\infty} M_{n} = max\{f(0) \prod_{n=1}^{\infty} f_{n}(0) = 0$$

$$g_{\mathbf{a}} = \frac{\vec{a}}{4} + 2$$

$$m_{\text{la}} = f_{\text{ll}} = 1 - a_{\text{ll}} M_{\text{la}} = max \{ f(0)_{\text{ll}} f_{\text{ll}} \} = \begin{cases} 2 - 2a_{\text{ll}} a_{\text{ll}} = 1 \\ 0, 1, a < 2 \end{cases}$$

$$g_{\mathbf{a}} = \begin{cases} 3 - a, 0, & a < 1 \\ a + 1, 1, & a < 2 \end{cases}$$

$$\lim_{n \to \infty} m_{n} = \min\{f(0) \mid f_{n} = 1 \} = \begin{cases} 1 - a, -1 < a < 0 \\ 0, -2 < a, -1 \end{cases}$$

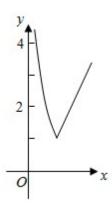
$$M_{\square a\square} = \max\{f(-\frac{a}{2}) \mid f_{\square 2\square}\} = 2 - 2a_{\square}$$

$$g_{\mathbf{a}} = \begin{cases} 3 - a - 1 < a < 0 \\ 2 - 2a - 2 < a - 1 \end{cases}$$

$$a_{x} - 2_{000} - \frac{a}{2} \cdot 1 = \frac{a}{2} < 0 \quad f(x) = [0 \quad 2]_{000000}$$

$$g_{a} = f_{2} - f(0) = 2 - 2a$$

$$=\begin{cases} 2 - 2a, a, -1 \\ 3 - a, -1, a < 1 \\ a + 1, 1, a < 2 \\ 2 + \frac{\vec{a}}{4}, 2, a < 4 \\ 2a - 2, a \cdot 4 \end{bmatrix}$$





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